

BOREHOLE LOG

Project Name: VANDENBERG AFB IRP: OU 2, Site 20, Landfill 1/Drum Disposal Site 1								
Project Number: 01K78601			Borehole No.: 20-MW-15			Sheet 1 of 2		
Borehole Location: 2099893.93 N, 5801908.15 E						Elevation and Datum: 453.96 feet MSL		
Drilling Contractor: Tri-County Drilling, Inc.			Date Started: 05/20/98			Date Ended: 05/20/98		
Drilling Equipment: CME-75			Total Depth: 67.5 feet			Groundwater Depth: 62 feet		
Drilling Method: Hollow Stem Auger			Sampling Method: Split Spoon			Borehole Diameter: 8 inches		
Driller: M. Ferguson			Borehole Abandonment: Reamed with 11" auger and completed as 4" monitoring well					
Hammer Information: Manual Hammer: 140-lb and 30-inch drop			Logged By: L. Roché			Checked By: M. Anderson		

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
5	SILTY SAND, dark grayish brown (10YR 4/2), slightly moist, medium grained, loose, with silt (15%). Same as above, wet. Same as above, slightly moist.		SM SM SM				0	Hand augered to 7 feet Perched water 2.5 to 7 feet
10	CLAYEY SAND, light yellowish brown (10YR 6/4), dry, fine to medium grained, loose to medium density, with clay (20%).		SC				0	
15	Same as above, pale brown (10YR 6/3), dry to slightly moist, medium density, with clay (30%).		SC				0	
20	SANDY CLAY, pale yellow (2.5Y 7/3), dry, firm, with medium grained sand (30%).		CL				0	
25	CLAYEY SAND, olive yellow (2.5Y 6/6), dry to slightly moist, loose, with clay (30%) and gravel up to 1/8" (<5%). Same as above, increasing angular to subrounded gravel (10%).		SC SC				0	Harder drilling.
30	SANDY CLAY, light olive brown (2.5Y 5/4), slightly moist, firm, with medium sand (30%) and gravel up to 1/8" (10%).		CL				0	
			SC					

BOREHOLE LOG

Project Name: VANDENBERG AFB IRP: OU 2, Site 20, Landfill 1/Drum Disposal Site 1

Project Number: 01K78601

Borehole No.: 20-MW-15

Sheet 2 of 2

Depth (feet)	Lithologic Description	Symbol	USCS	Sample	Sample Number	Blow Counts	Field OVA (ppm)	Remarks
35	CLAYEY SAND, light yellowish brown (2.5Y 6/3), dry to slightly moist, medium grained, dense, weak cementation, with clay (30%) and subangular chert and diatomite gravel up to 1/2" (20%).		SC				0	Very hard drilling in cemented layer 29.5 to 30.5 feet, then easier.
	SANDY CLAY with GRAVEL, light olive brown (2.5Y 5/3), slightly moist, soft, low plasticity, with sand (15%) and angular to subangular gravel (15%).		CL				0	
40	CLAY, light olive brown (2.5Y 5/3), slightly moist, soft, low plasticity, with sand (10%) and angular to subangular gravel (10%). Same as above, medium plasticity, less sand (5%) and gravel (5%).		CL				0	
45	Same as above, moist.		CL				0	
50	ROCK, dark grayish brown (10YR 4/2), slightly moist, very stiff, medium plasticity, high dry strength, with fine to medium sand (10%) and gravel up to 1/8" (5%).		RX				0	Weathered, fractured rock.
55	Same as above, increasing gravel (10%).		RX				0	
60							0	
65	ROCK, very dark grayish brown (10YR 3/2), wet, highly fractured, with fine to medium sand (20%) and trace gravel.		RX				0	Decreasing fractures.
70	End of boring at 67.5 feet below ground surface. Groundwater encountered at 62 feet. Boring reamed with 11" auger and completed as 4" monitoring well.							Very hard drilling.